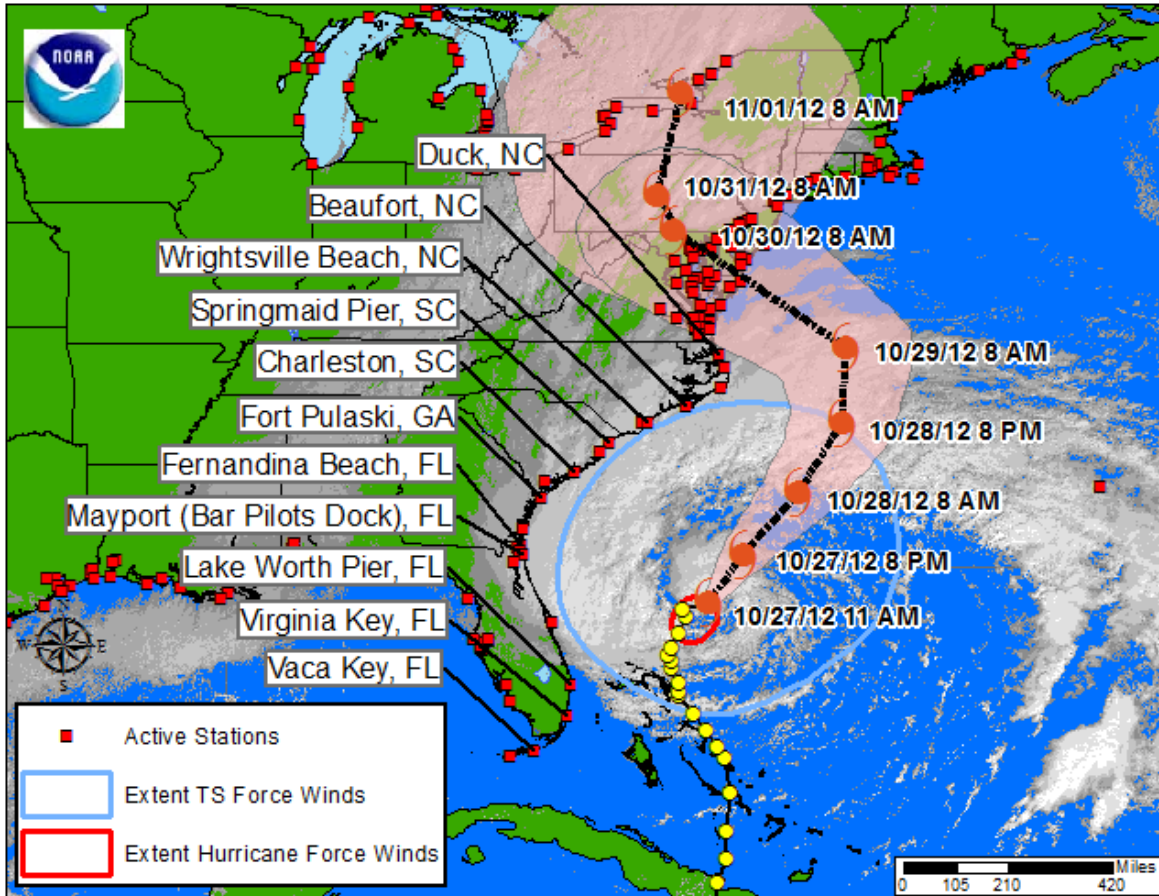




Hurricane SANDY QuickLook Posted: 12:00 EDT 10/27/2012

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 10/27/2012 12:00 EDT, water levels in southeastern Florida from Lake Worth to Vaca Key are elevated 1.0 to 1.5 feet above predictions. Water levels along the East Coast from Mayport, FL to Duck, NC are elevated between 1.4 and 2.8 feet above predictions. Winds from southern Florida to North Carolina range from 10 to 30 knots with higher gusts. Barometric pressure continues to fall northward from Fort Pulaski, GA to Duck, NC.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to [Mean Lower Low Water](#) are:

Mayport (Bar Pilots Dock), FL: Next predicted high tides are 5.2 ft (1.58 m) at 10/27/2012 19:58 EDT and 5.7 ft (1.74 m) at 10/28/2012 08:22 EDT.

Fernandina Beach, FL: Next predicted high tides are 6.6 ft (2.02 m) at 10/27/2012 20:05 EDT and 7.2 ft (2.22 m) at 10/28/2012 08:26 EDT.

Fort Pulaski, GA: Next predicted high tides are 7.4 ft (2.26 m) at 10/27/2012 19:18 EDT and 8.0 ft (2.48 m) at 10/28/2012 07:35 EDT.

Charleston, SC: Next predicted high tides are 5.7 ft (1.75 m) at 10/27/2012 19:10 EDT and 6.2 ft (1.92 m) at 10/28/2012 07:29 EDT.

Springmaid Pier, SC: Next predicted high tides are 5.5 ft (1.67 m) at 10/27/2012 18:41 EDT

and 5.9 ft (1.82 m) at 10/28/2012 07:03 EDT.

Wrightsville Beach, NC: Next predicted high tides are 4.2 ft (1.29 m) at 10/27/2012 18:30 EDT and 4.8 ft (1.49 m) at 10/28/2012 06:53 EDT.

Beaufort, NC: Next predicted high tides are 3.4 ft (1.03 m) at 10/27/2012 19:00 EDT and 3.8 ft (1.18 m) at 10/28/2012 07:29 EDT.

Duck, NC: Next predicted high tides are 3.4 ft (1.03 m) at 10/27/2012 18:41 EDT and 4.0 ft (1.23 m) at 10/28/2012 07:05 EDT.

Lake Worth Pier, FL: Next predicted high tides are 3.2 ft (0.98 m) at 10/27/2012 19:14 EDT and 3.6 ft (1.10 m) at 10/28/2012 07:44 EDT.

Virginia Key, FL: Next predicted high tides are 2.6 ft (0.79 m) at 10/27/2012 20:07 EDT and 2.7 ft (0.84 m) at 10/28/2012 08:40 EDT.

Vaca Key, FL: Next predicted high tides are 1.0 ft (0.31 m) at 10/27/2012 14:18 EDT and 1.1 ft (0.34 m) at 10/28/2012 01:39 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For information on Highest Astronomical Tide (HAT), NAVD88 and other datums, please see [Tidal Datums](#). For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst:KG

SELECT [NATIONAL HURRICANE CENTER](#) ADVISORY INFORMATION:

HURRICANE SANDY ADVISORY NUMBER 21
1100 AM EDT SAT OCT 27 2012

...SANDY SLOWLY MOVING AWAY FROM THE BAHAMAS AND FLORIDA...
...TROPICAL-STORM-FORCE WINDS ARE ALREADY NEAR THE COAST OF NORTH CAROLINA...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

ALL TROPICAL STORM WATCHES AND WARNINGS ALONG THE EAST COAST OF FLORIDA HAVE BEEN DISCONTINUED.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...

- * SOUTH SANTEE RIVER SOUTH CAROLINA TO DUCK NORTH CAROLINA
- * PAMLICO AND ALBEMARLE SOUNDS
- * GREAT ABACO AND GRAND BAHAMA ISLANDS

A TROPICAL STORM WATCH IS IN EFFECT FOR...

- * SAVANNAH RIVER TO SOUTH SANTEE RIVER
- * BERMUDA

IN ADDITION...GALE...STORM AND HIGH WIND WATCHES AND WARNINGS ARE IN EFFECT FOR AREAS NORTH OF THE TROPICAL STORM WARNING AREAS. SEE STATEMENTS FROM LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICES.

INTERESTS THROUGHOUT THE MID-ATLANTIC STATES AND NEW ENGLAND SHOULD MONITOR THE PROGRESS OF SANDY.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS... PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED STATES... PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 AM EDT...THE CENTER OF HURRICANE SANDY WAS LOCATED NEAR LATITUDE 29.0 NORTH...LONGITUDE 76.0 WEST. OVER THE PAST FEW HOURS SANDY HAS BEEN MOVING TO THE EAST-NORTHEAST... HOWEVER...A LONGER-TERM MOTION IS NORTH-NORTHEAST NEAR 9 MPH...A GENERAL NORTHEASTWARD MOTION WITH AN INCREASE IN FORWARD SPEED IS EXPECTED ON SUNDAY...AND A TURN TOWARD THE NORTH IS FORECAST BY SUNDAY NIGHT. ON THE FORECAST TRACK THE CENTER OF SANDY WILL CONTINUE MOVING AWAY FROM THE NORTHWESTERN BAHAMAS THIS MORNING AND WILL MOVE PARALLEL TO THE SOUTHEAST COAST OF THE UNITED STATES THROUGH THE WEEKEND.

MAXIMUM SUSTAINED WINDS ARE NEAR 75 MPH...WITH HIGHER GUSTS. LITTLE OVERALL CHANGE IN STRENGTH IS FORECAST DURING THE NEXT COUPLE OF DAYS.

HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 105 MILES...FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 450 MILES.

THE LATEST MINIMUM CENTRAL PRESSURE REPORTED BY AN AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT WAS 958 MB.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM CONDITIONS WILL CONTINUE IN GREAT ABACO AND GRAND BAHAMA ISLANDS FOR THE NEXT FEW HOURS. TROPICAL STORM CONDITIONS ARE EXPECTED TO FIRST REACH THE TROPICAL STORM WARNING AREA IN THE CAROLINAS THIS AFTERNOON OR EVENING... AND SPREAD NORTHWARD TONIGHT AND SUNDAY. TROPICAL STORM CONDITIONS ARE POSSIBLE IN THE WATCH AREAS THROUGH TONIGHT. GALE FORCE WINDS ARE EXPECTED TO ARRIVE ALONG PORTIONS OF THE MID-ATLANTIC COAST BY LATE SUNDAY OR SUNDAY NIGHT.

STORM SURGE...THE COMBINATION OF A DANGEROUS STORM SURGE AND THE TIDE WILL CAUSE NORMALLY DRY AREAS NEAR THE COAST TO BE FLOODED BY RISING WATERS. THE WATER COULD REACH THE FOLLOWING DEPTHS ABOVE GROUND IF THE PEAK SURGE OCCURS AT THE TIME OF HIGH TIDE...

FL EAST COAST NORTH OF CAPE CANAVERAL...1 TO 2 FT
NC SOUTH OF SURF CITY...1 TO 3 FT
NC NORTH OF SURF CITY INCLUDING PAMLICO/ALBERMARLE SNDS...3 TO 5 FT
SE VA AND DELMARVA INCLUDING LOWER CHESAPEAKE BAY...2 TO 4 FT
UPPER CHESAPEAKE BAY...1 TO 2 FT
OCEAN CITY MD TO THE CT/RI BORDER...4 TO 8 FT
LONG ISLAND SOUND...RARITAN BAY...AND DELAWARE BAY...4 TO 8 FT

SURGE-RELATED FLOODING DEPENDS ON THE RELATIVE TIMING OF THE SURGE AND THE TIDAL CYCLE...AND CAN VARY GREATLY OVER SHORT DISTANCES. GIVEN THE LARGE WIND FIELD ASSOCIATED WITH SANDY...ELEVATED WATER LEVELS COULD SPAN MULTIPLE TIDE CYCLES RESULTING IN REPEATED AND EXTENDED PERIODS OF COASTAL AND BAYSIDE FLOODING. IN ADDITION...ELEVATED WATERS COULD OCCUR FAR REMOVED FROM THE CENTER OF SANDY. FURTHERMORE...THESE CONDITIONS WILL OCCUR REGARDLESS OF WHETHER TROPICAL DEPRESSION POST-TROPICAL CYCLONE. FOR INFORMATION SPECIFIC TO YOUR AREA...PLEASE SEE PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE OFFICE.

RAINFALL...RAINFALL TOTALS OF 3 TO 6 INCHES ARE EXPECTED OVER FAR EASTERN NORTH CAROLINA WITH ISOLATED MAXIMUM TOTALS OF 8 INCHES POSSIBLE. RAINFALL AMOUNTS OF 4 TO 8 INCHES ARE EXPECTED OVER PORTIONS OF THE MID-ATLANTIC STATES...INCLUDING THE DELMARVA PENINSULA...WITH ISOLATED MAXIMUM AMOUNTS OF 12 INCHES POSSIBLE.

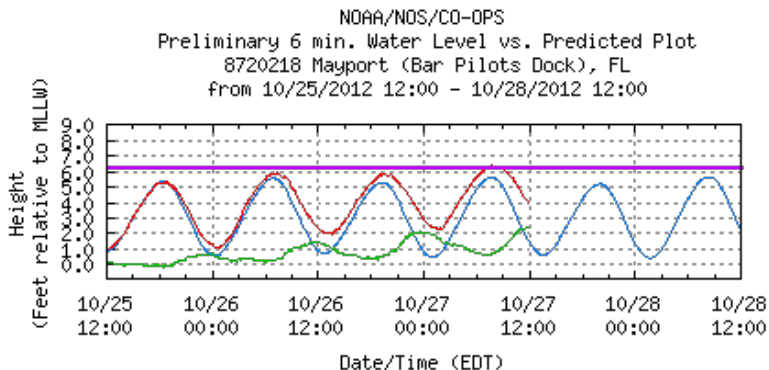
SURF...DANGEROUS SURF CONDITIONS WILL CONTINUE FROM FLORIDA THROUGH THE CAROLINAS FOR THE NEXT COUPLE OF DAYS AND SPREAD INTO THE MID-ATLANTIC AND NORTHEASTERN STATES BY SUNDAY.

FORECASTER BROWN

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Mayport \(Bar Pilots Dock\) - Water Level](#), [Mayport \(Bar Pilots Dock\) - Winds](#),
[Mayport \(Bar Pilots Dock\) - Barometric](#), [Fernandina Beach - Water Level](#),
[Fernandina Beach - Winds](#), [Fernandina Beach - Barometric](#), [Fort Pulaski - Water Level](#),
[Fort Pulaski - Winds](#), [Fort Pulaski - Barometric](#), [Charleston - Water Level](#),
[Charleston - Winds](#), [Charleston - Barometric](#), [Springmaid Pier - Water Level](#),
[Springmaid Pier - Winds](#), [Springmaid Pier - Barometric](#),
[Wrightsville Beach - Water Level](#), [Wrightsville Beach - Winds](#),
[Wrightsville Beach - Barometric](#), [Beaufort - Water Level](#), [Beaufort - Winds](#),
[Beaufort - Barometric](#), [Duck - Water Level](#), [Duck - Winds](#), [Duck - Barometric](#),
[Lake Worth Pier - Water Level](#), [Lake Worth Pier - Winds](#), [Lake Worth Pier - Barometric](#),
[Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Barometric](#),
[Vaca Key - Water Level](#), [Vaca Key - Winds](#), [Vaca Key - Barometric](#),

[Mayport \(Bar Pilots Dock\), FL - Return to List](#)

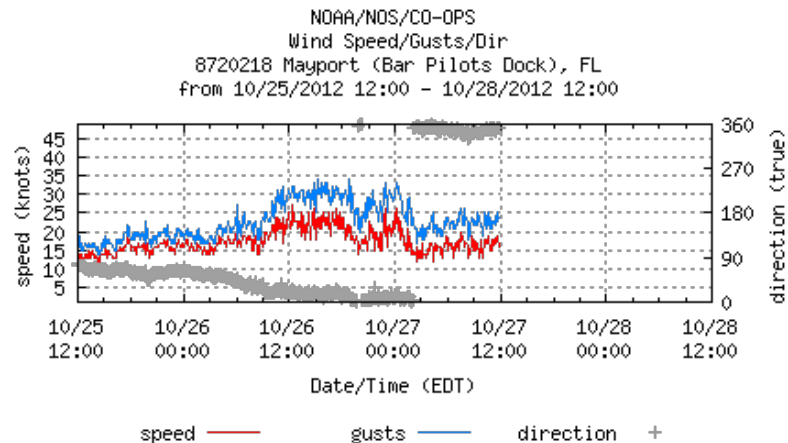


Last Observed Sample: 10/27/2012 11:48 (EDT)

Relative to **MLLW**: **Observed: 4.04 ft.** **Predicted: 1.63 ft.** **Residual: 2.41 ft.**

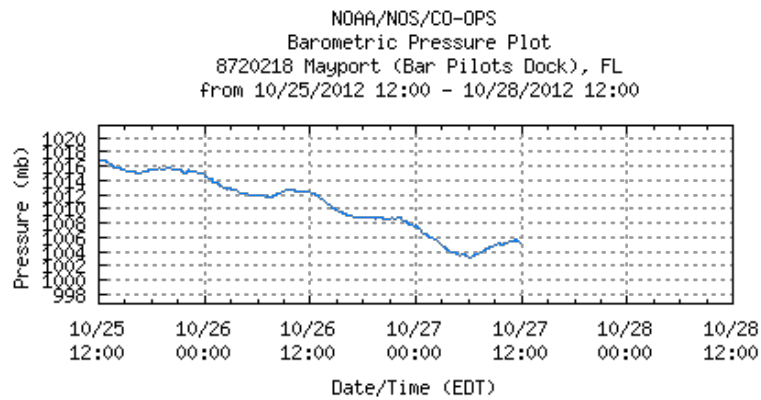
Historical Maximum Water Level: Sep 27 2004, 2.47 ft. above **MHHW**

[Mayport \(Bar Pilots Dock\), FL - Return to List](#)



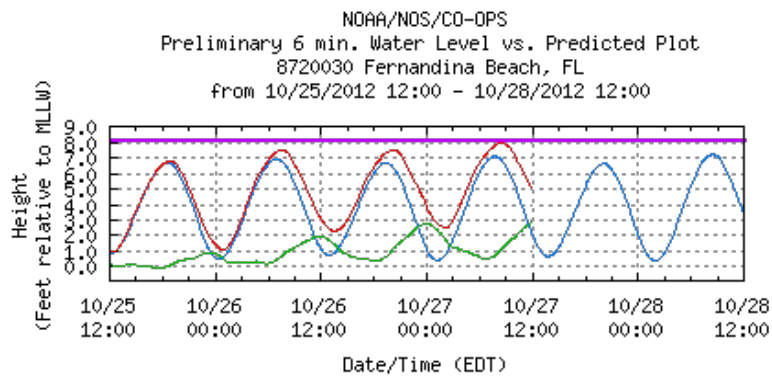
Last Observed Sample: 10/27/2012 11:48 (EDT)
Wind Speed: 16 knots Gusts: 24 knots Direction: 351° T

[Mayport \(Bar Pilots Dock\), FL - Return to List](#)



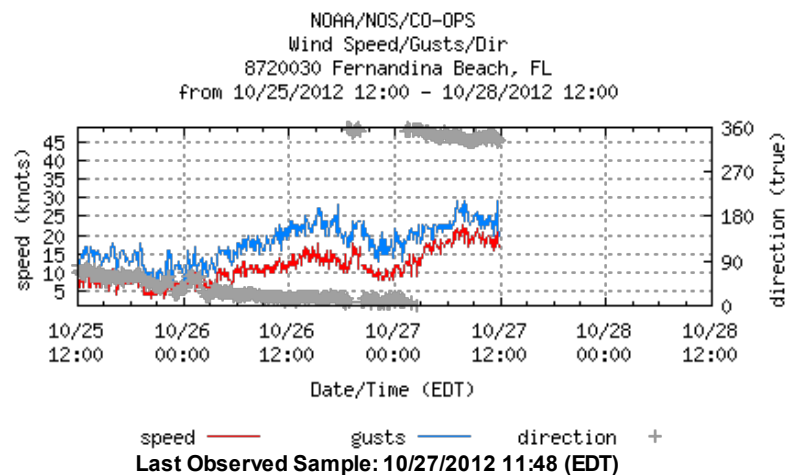
Last Observed Sample: 10/27/2012 11:48 (EDT)
Barometric Pressure: 1005.3 mb

[Fernandina Beach, FL - Return to List](#)



Last Observed Sample: 10/27/2012 11:48 (EDT)
Relative to MLLW: Observed: 5.17 ft. Predicted: 2.33 ft. Residual: 2.84 ft.
Historical Maximum Water Level: Oct 2 1898, 6.94 ft. above MHHW

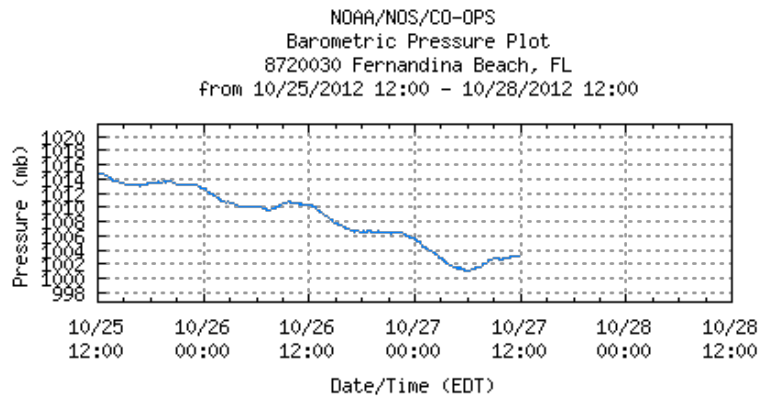
[Fernandina Beach, FL - Return to List](#)



Last Observed Sample: 10/27/2012 11:48 (EDT)

Wind Speed: 17 knots Gusts: 20 knots Direction: 334° T

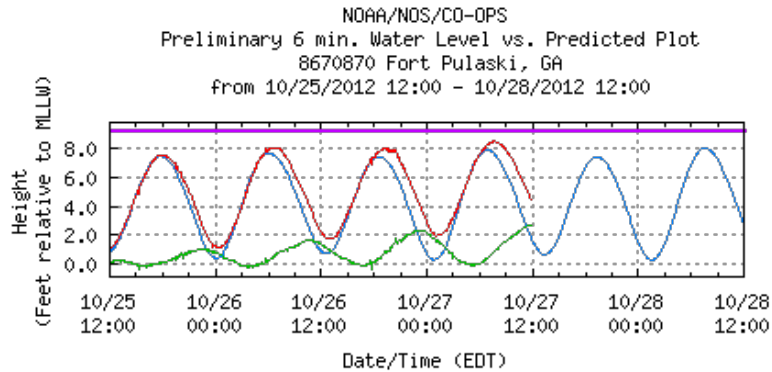
[Fernandina Beach, FL - Return to List](#)



Last Observed Sample: 10/27/2012 11:48 (EDT)

Barometric Pressure: 1003.1 mb

[Fort Pulaski, GA - Return to List](#)

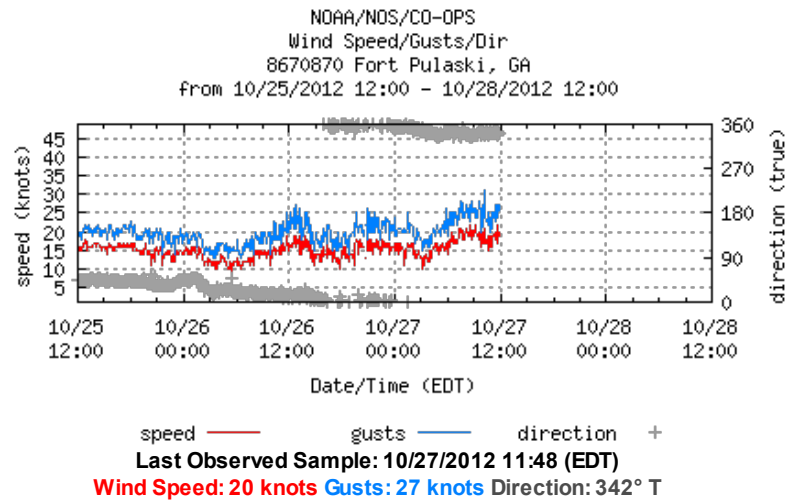


Last Observed Sample: 10/27/2012 11:48 (EDT)

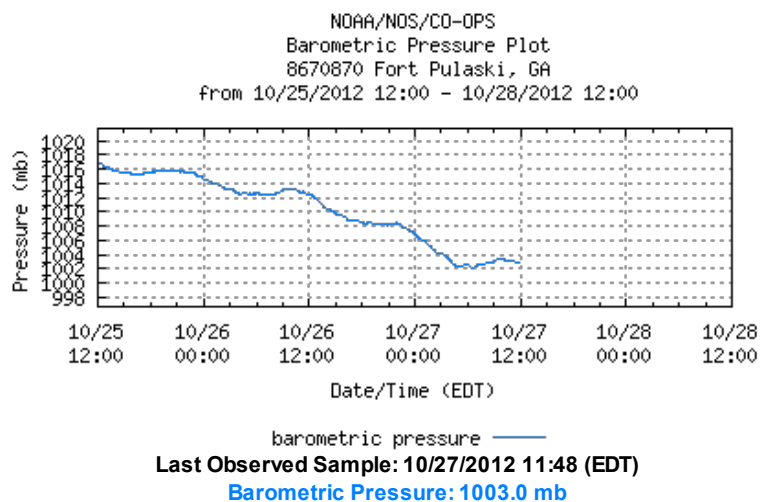
Relative to **MLLW**: Observed: 4.48 ft. Predicted: 1.84 ft. Residual: 2.64 ft.

Historical Maximum Water Level: Oct 15 1947, 3.4 ft. above **MHHW**

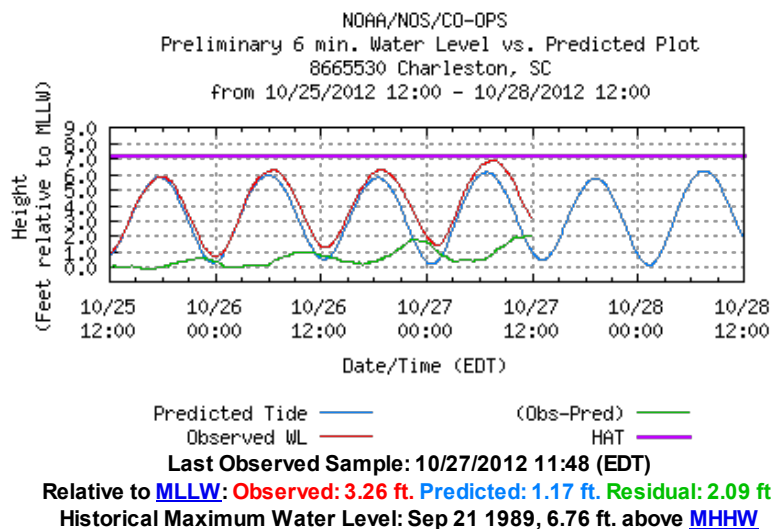
[Fort Pulaski, GA - Return to List](#)



[Fort Pulaski, GA - Return to List](#)

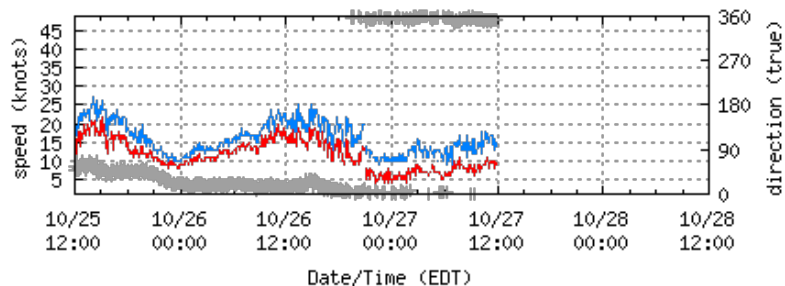


[Charleston, SC - Return to List](#)



[Charleston, SC - Return to List](#)

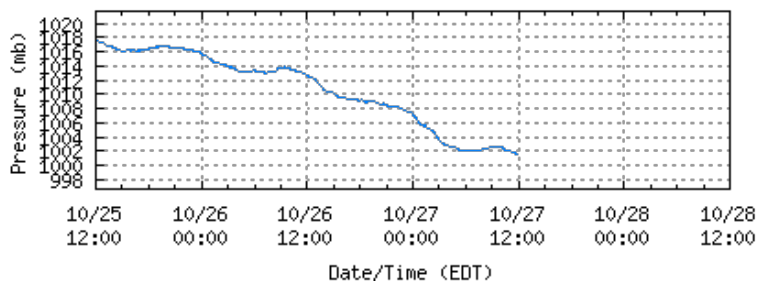
NOAA/NOS/CO-OPS
Wind Speed/Gusts/Dir
8665530 Charleston, SC
from 10/25/2012 12:00 - 10/28/2012 12:00



speed — gusts — direction +
Last Observed Sample: 10/27/2012 11:48 (EDT)
Wind Speed: 9 knots Gusts: 14 knots Direction: 351° T

[Charleston, SC](#) - [Return to List](#)

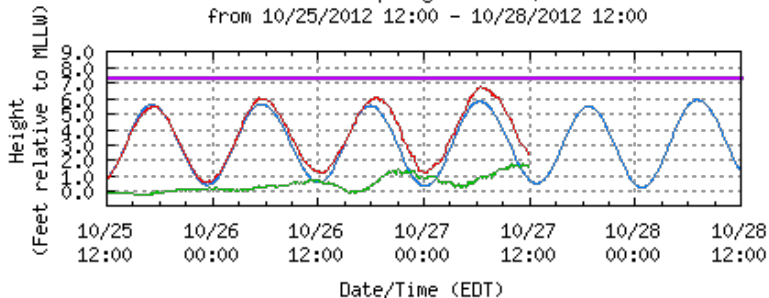
NOAA/NOS/CO-OPS
Barometric Pressure Plot
8665530 Charleston, SC
from 10/25/2012 12:00 - 10/28/2012 12:00



barometric pressure —
Last Observed Sample: 10/27/2012 11:48 (EDT)
Barometric Pressure: 1001.7 mb

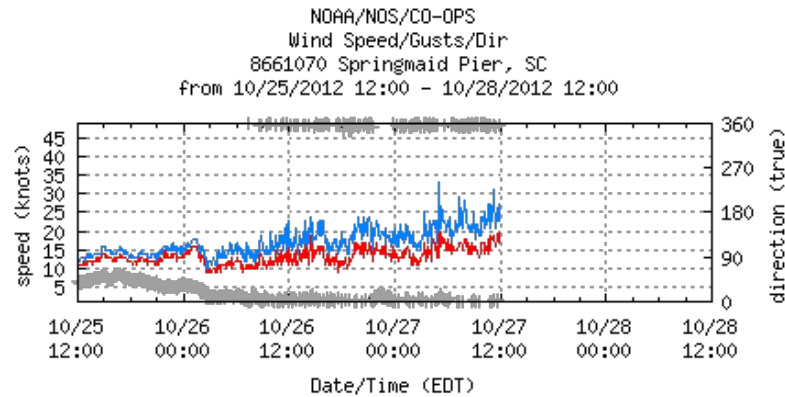
[Springmaid Pier, SC](#) - [Return to List](#)

NOAA/NOS/CO-OPS
Preliminary 6 min. Water Level vs. Predicted Plot
8661070 Springmaid Pier, SC
from 10/25/2012 12:00 - 10/28/2012 12:00



Predicted Tide — (Obs-Pred) —
Observed WL — HAT —
Last Observed Sample: 10/27/2012 11:54 (EDT)
Relative to MLLW: Observed: 2.43 ft. Predicted: 0.81 ft. Residual: 1.62 ft.
Historical Maximum Water Level: Jan 1 1987, 3.65 ft. above MHHW

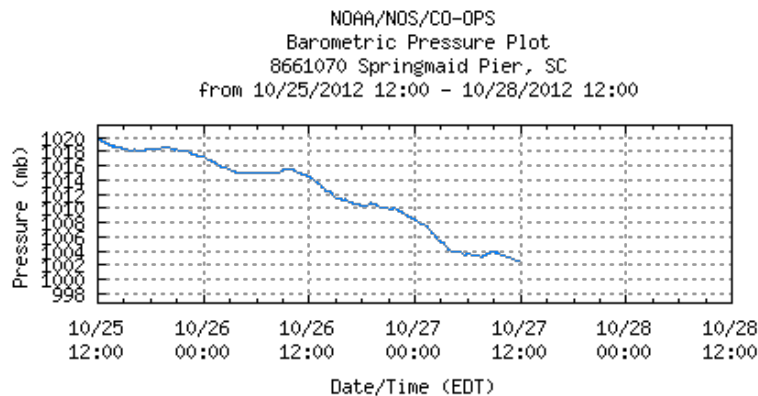
[Springmaid Pier, SC - Return to List](#)



Last Observed Sample: 10/27/2012 11:54 (EDT)

Wind Speed: 17 knots Gusts: 23 knots Direction: 358° T

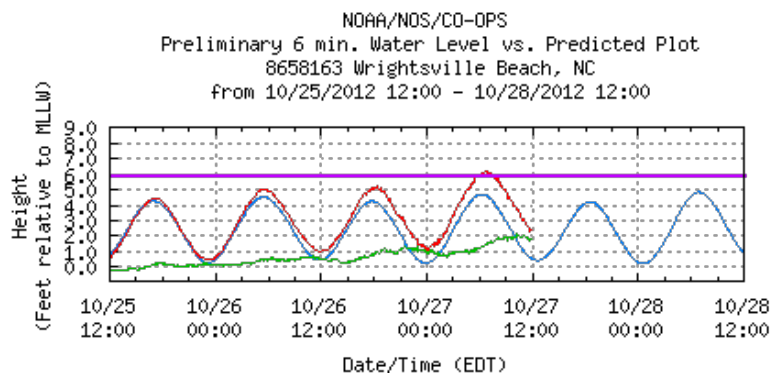
[Springmaid Pier, SC - Return to List](#)



Last Observed Sample: 10/27/2012 11:54 (EDT)

Barometric Pressure: 1002.6 mb

[Wrightsville Beach, NC - Return to List](#)

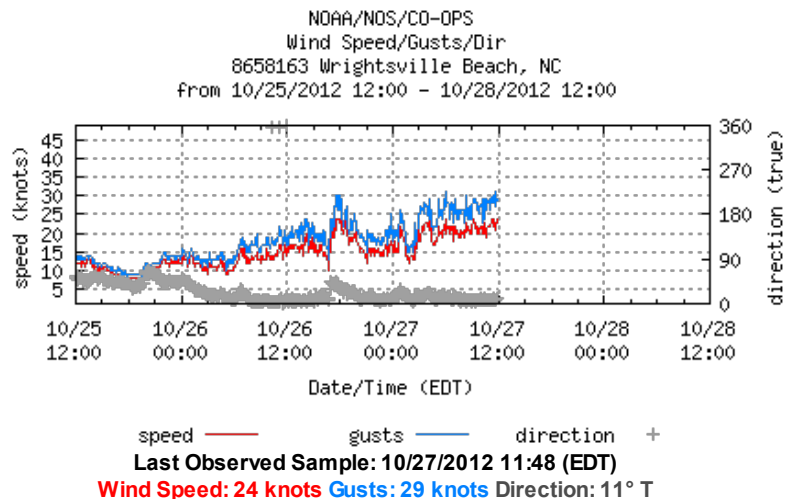


Last Observed Sample: 10/27/2012 11:48 (EDT)

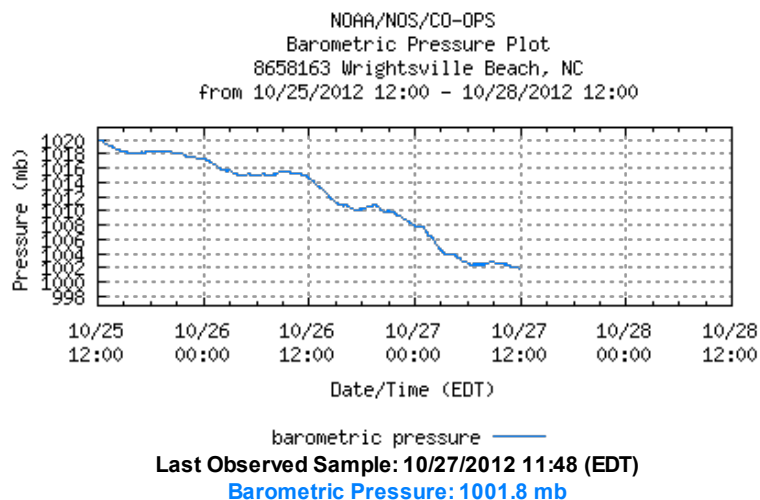
Relative to MLLW: Observed: 2.38 ft. Predicted: 0.60 ft. Residual: 1.78 ft.

Historical Maximum Water Level: Sep 25 2008, 2.81 ft. above MHHW

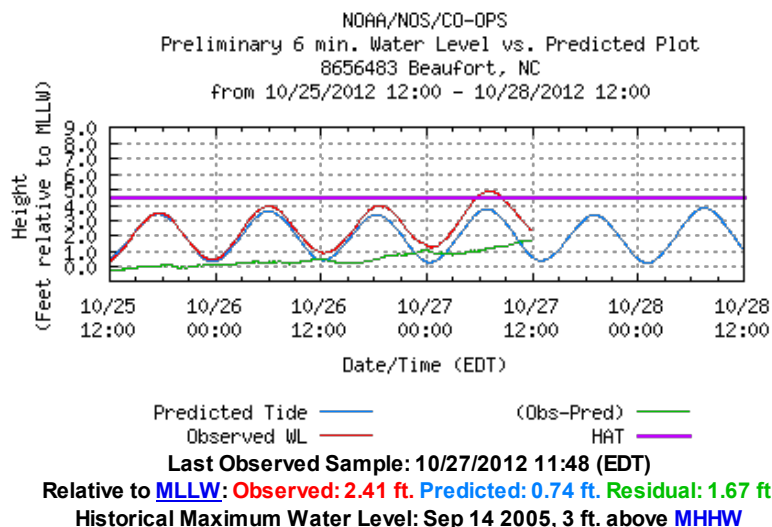
[Wrightsville Beach, NC - Return to List](#)



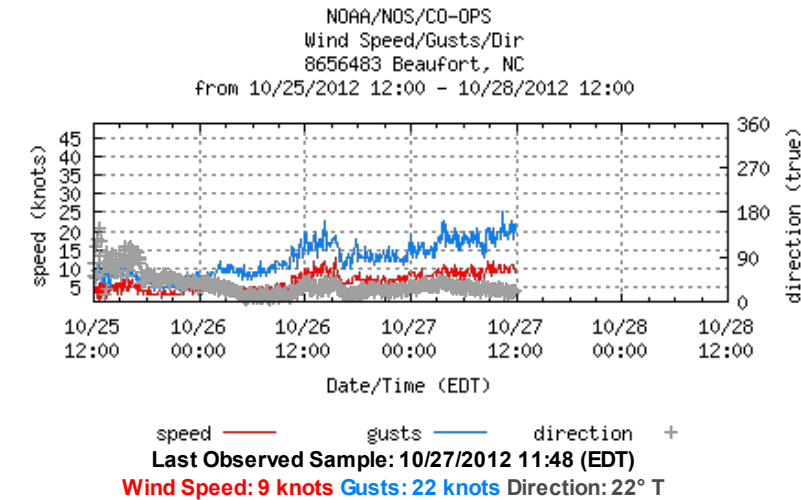
[Wrightsville Beach, NC - Return to List](#)



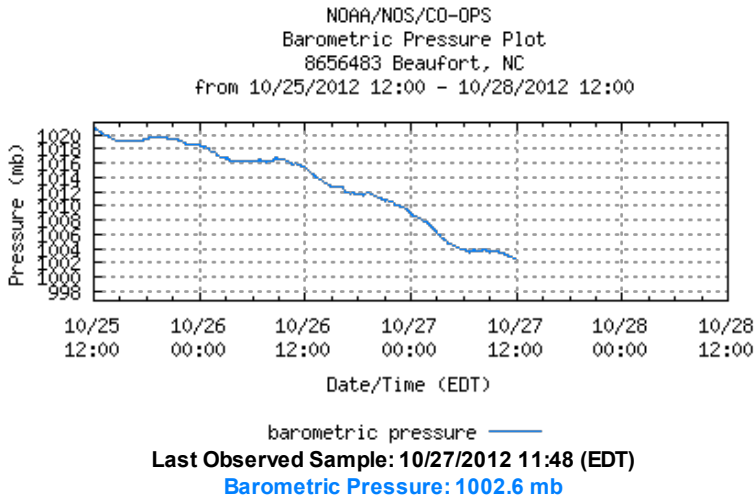
[Beaufort, NC - Return to List](#)



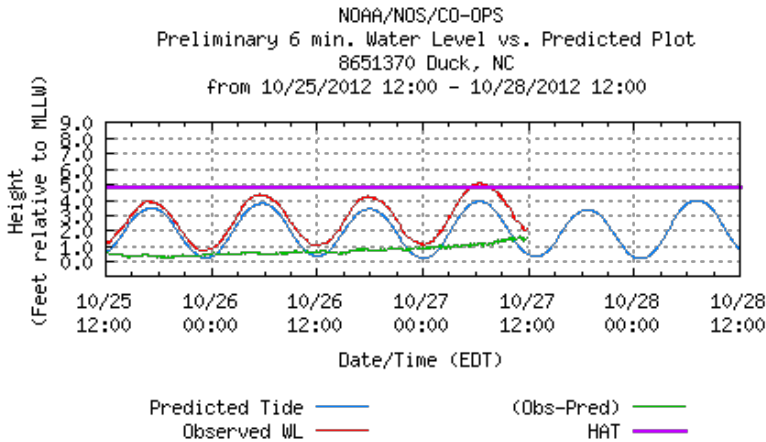
Beaufort, NC - [Return to List](#)



Beaufort, NC - [Return to List](#)

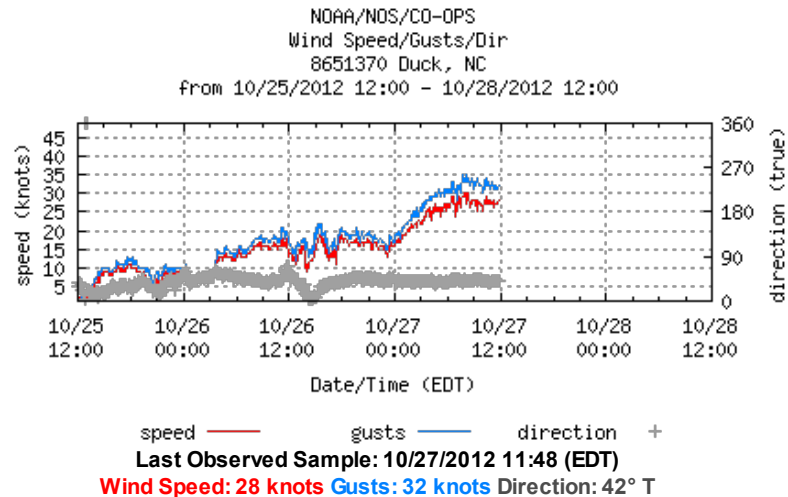


Duck, NC - [Return to List](#)

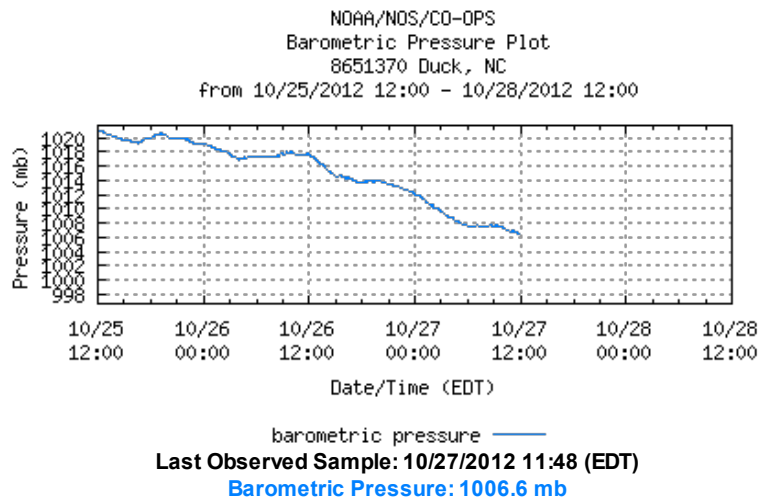


Last Observed Sample: 10/27/2012 11:48 (EDT)
 Relative to **MLLW**: **Observed: 2.14 ft.** **Predicted: 0.56 ft.** **Residual: 1.58 ft.**
 Historical Maximum Water Level: Sep 18 2003, 4.13 ft. above **MHHW**

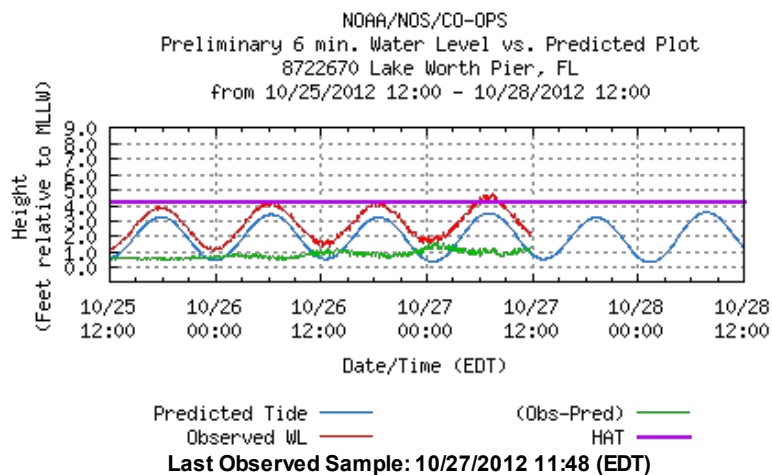
[Duck, NC](#) - [Return to List](#)



[Duck, NC](#) - [Return to List](#)

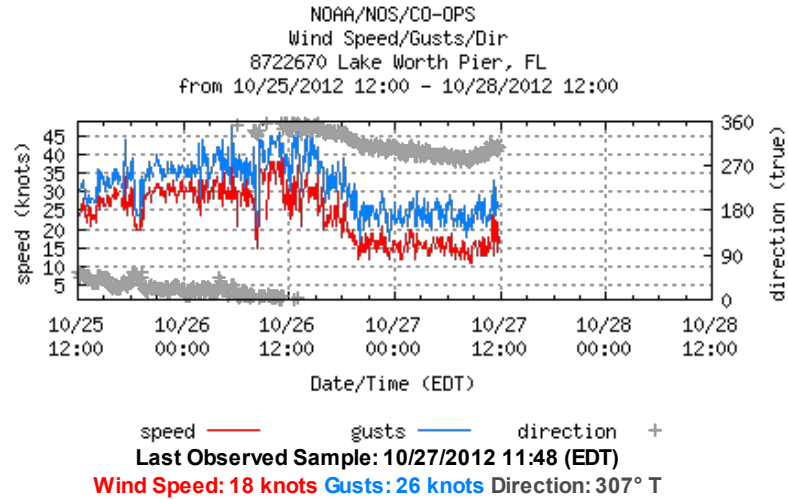


[Lake Worth Pier, FL](#) - [Return to List](#)

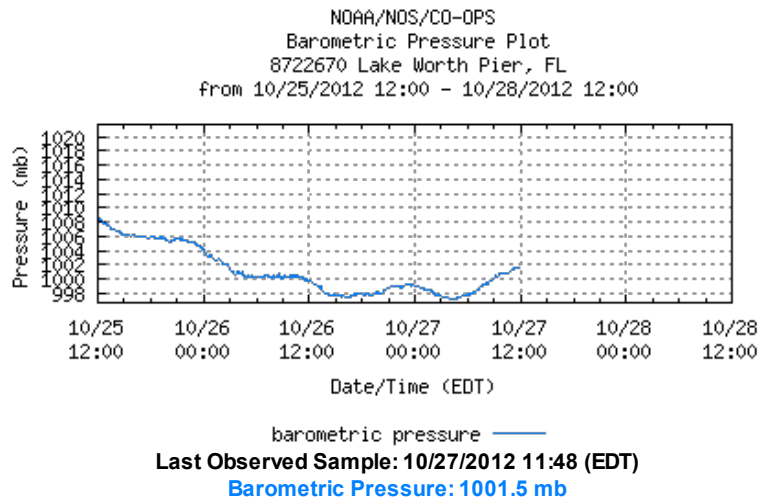


Relative to **MLLW**: **Observed: 2.30 ft. Predicted: 0.96 ft. Residual: 1.34 ft.**
 Historical Maximum Water Level: Nov 23 1984, 1.88 ft. above **MHHW**

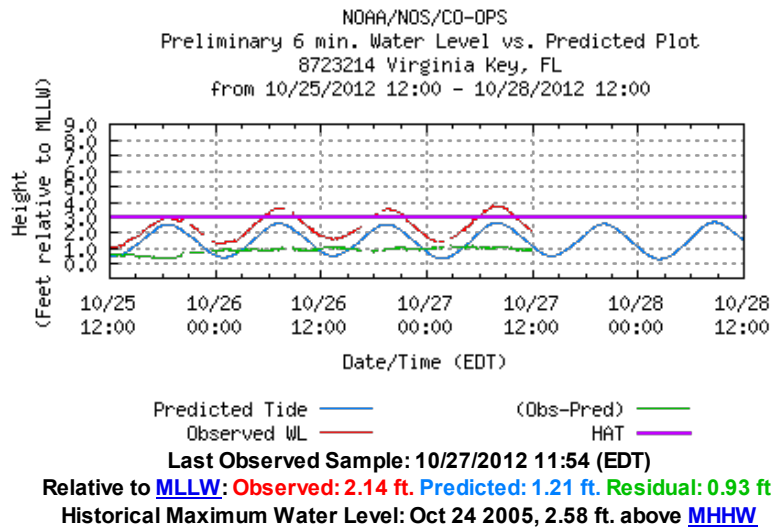
[Lake Worth Pier, FL - Return to List](#)



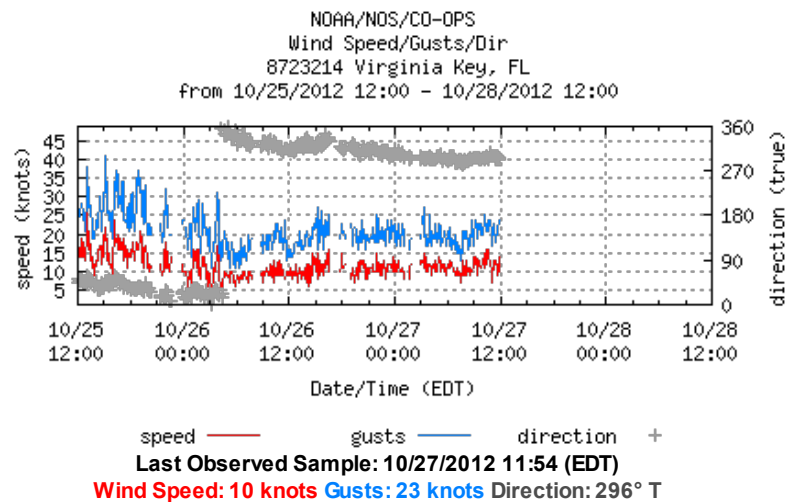
[Lake Worth Pier, FL - Return to List](#)



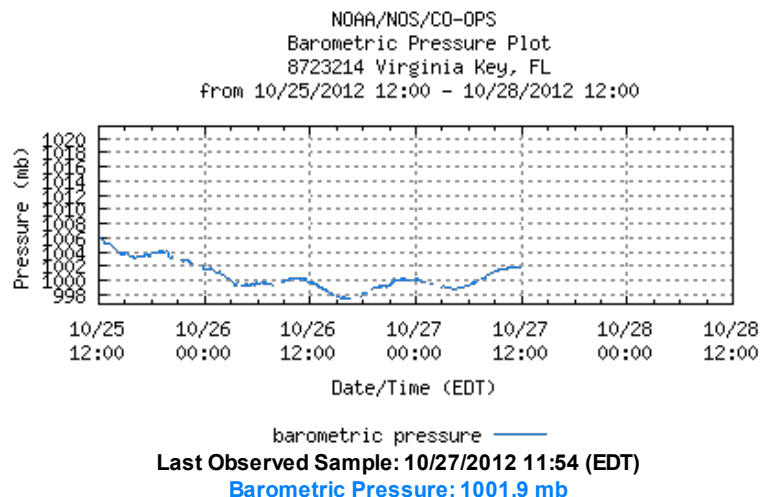
[Virginia Key, FL - Return to List](#)



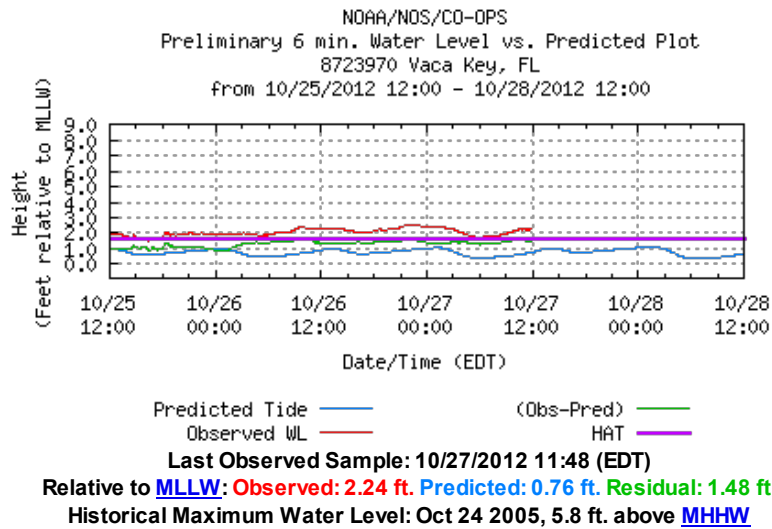
[Virginia Key, FL - Return to List](#)



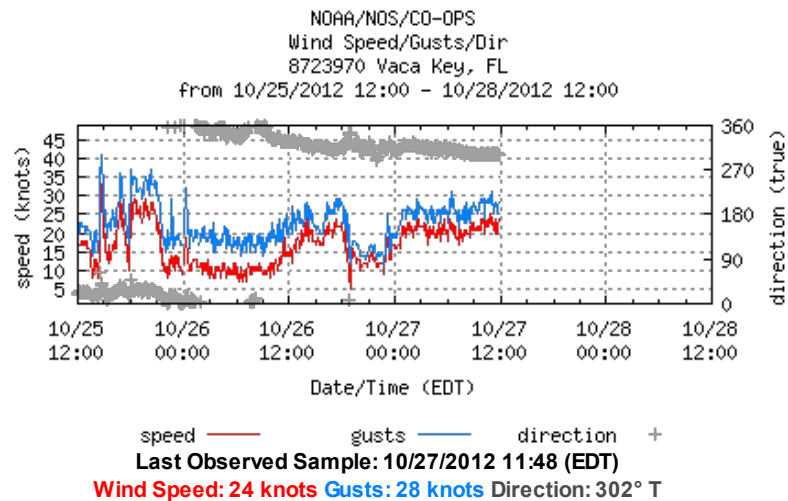
[Virginia Key, FL - Return to List](#)



[Vaca Key, FL - Return to List](#)



[Vaca Key, FL - Return to List](#)



[Vaca Key, FL - Return to List](#)

